1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $\text{C}_{23}\text{H}_{28}\text{N}_2\text{O}.\text{HCl}.\frac{1}{2}\text{H}_2\text{O}$

Batch Molecular Weight: 393.95

Physical Appearance: White solid

Solubility:
- Water to 100 mM
- DMSO to 100 mM

Storage: Store at -20°C

2. ANALYTICAL DATA

TLC: $R_f = 0.18$ (Dichloromethane:Methanol [9:1])

HPLC: Shows 99.4% purity

$^1$H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

- Carbon: Theoretical 70.12, Found 70.31
- Hydrogen: Theoretical 7.68, Found 7.44
- Nitrogen: Theoretical 7.11, Found 7.09
Product Name: AR-M 1000390 hydrochloride

CAS Number: 209808-47-9
IUPAC Name: \(N,N\text{-Diethyl-4-(phenyl-4-piperidinylidenemethyl)}\text{-benzamide hydrochloride}\)

Description:
Non-peptidic, low-internalizing \(\delta\)-selective opioid receptor agonist; derivative of SNC 80 (Cat. No. 0764). Does not trigger acute desensitization of the analgesic response; reduces CFA-induced hyperalgesia. Brain penetrant following systemic administration.

Physical and Chemical Properties:
Batch Molecular Formula: \(C_{23}H_{28}N_2O_2.HCl.\frac{1}{2}H_2O\)
Batch Molecular Weight: 393.95
Physical Appearance: White solid
Minimum Purity: >97%

Storage: Store at -20°C
CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:
water to 100 mM
DMSO to 100 mM

Stability and Solubility Advice:
Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:
SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.
SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References: